Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2020-02-01-01 **Date: 29/11/2019**

ct Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

y : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : BBMP/EE/BTP/WO/133/2019-20

of Receipt : 25-11-19

mer ID : Drain Side Wall Concrete

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 29/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	149.91 X 150.42 X 150.48	22549	8.785	420.3	18.6	18.4
Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.12 X 151.65 X 150.17	22917	8.172	413.3	18.0	
Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.01 X 150.97 X 150.14	22647	8.589	420.5	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-02-01-01 **Date: 20/12/2019**

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.49 X 151.14 X 150.42	22745	8.276	538.1	23.7	23.2
2	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.69 X 149.75 X 150.17	22566	8.865	514.4	22.8	
3	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	149.04 X 150.79 X 149.52	22474	8.119	520.0	23.1	

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Format No: CP/TF/01

Lab ID : CP-2020-02-01-01

Date: 29/11/2019

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	149.20 X 149.07 X 149.06	22240	8.715	418.3	18.8	18.8
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	149.96 X 151.48 X 149.57	22716	8.172	425.8	18.7	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	149.59 X 151.57 X 150.04	22674	8.589	429.6	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/12/2019

Lab ID : CP-2020-02-01-01
Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference : BBMP/EE/BTP/WO/133/2019-20
Date of Receipt : 25-11-19
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.87 X 149.96 X 150.85	22625	8.276	541.4	23.9	23.1
2	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.71 X 151.30 X 151.15	22803	8.865	503.7	22.1	
3	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	149.19 X 149.72 X 150.73	22337	8.119	521.3	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-02-01-01 **Date: 29/11/2019**

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.56 X 150.82 X 150.85	22707	8.715	419.0	18.5	18.3
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.40 X 151.93 X 151.41	23001	8.172	425.1	18.5	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.72 X 149.47 X 151.46	22678	8.589	409.5	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-02-01-01 **Date: 20/12/2019**

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.08 X 149.84 X 149.37	22488	**8.276**	536.3	23.8	23.3
2	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	149.79 X 151.00 X 150.14	22619	**8.865**	511.8	22.6	
3	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	149.75 X 151.89 X 150.12	22745	**8.119**	529.8	23.3	

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Lab ID : CP-2020-02-01-01

Date: 29/11/2019

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.07 X 151.38 X 151.39	22716	8.715	424.5	18.7	18.8
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.45 X 151.98 X 150.10	23019	8.172	435.7	18.9	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.72 X 150.73 X 151.58	22718	8.589	427.6	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/12/2019

Lab ID : CP-2020-02-01-01
Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference : BBMP/EE/BTP/WO/133/2019-20
Date of Receipt : 25-11-19
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	149.82 X 149.39 X 150.90	22380	8.276	530.3	23.7	23.2
2	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.47 X 150.70 X 151.21	22676	8.865	514.1	22.7	
3	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.69 X 151.49 X 150.27	22828	8.119	528.2	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2019

e ID	:	CP-2020-02-01-01
ject Name	:	Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
stomer's Reference	:	BBMP/EE/BTP/WO/133/2019-20
te of Receipt	:	25-11-19
stomer ID	:	Drain Side Wall Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.85 X 150.51 X 150.28	22704	8.715	418.6	18.4	18.3
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.73 X 150.62 X 150.91	22703	8.172	415.3	18.3	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.89 X 150.77 X 150.66	22750	8.589	411.9	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/12/2019

Lab ID : CP-2020-02-01-01
Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference : BBMP/EE/BTP/WO/133/2019-20
Date of Receipt : 25-11-19
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	149.75 X 149.25 X 149.11	22351	8.276	529.9	23.7	23.2
2	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	150.61 X 149.20 X 151.63	22471	8.865	509.5	22.7	
3	Drain Side Wall Concrete	M20	22/11/2019	20/12/2019	151.17 X 149.51 X 150.44	22601	8.119	524.3	23.2	

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Format No: CP/TF/01

Lab ID : CP-2020-02-01-01

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Date: 05/12/2019

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	28/11/2019	05/12/2019	149.94 X 149.94 X 150.68	22482	8.715	420.4	18.7	18.6
2	Culvert Concrete	M20	28/11/2019	05/12/2019	150.65 X 149.13 X 149.85	22467	8.172	418.8	18.6	
3	Culvert Concrete	M20	28/11/2019	05/12/2019	151.41 X 149.85 X 151.35	22688	8.589	419.6	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Job ID : CP-2020-02-01-01

Date: 26/12/2019

Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/133/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	28/11/2019	26/12/2019	151.06 X 149.73 X 149.69	22618	8.276	533.2	23.6	23.0
2	Culvert Concrete	M20	28/11/2019	26/12/2019	151.51 X 150.23 X 151.92	22761	8.865	508.0	22.3	
3	Culvert Concrete	M20	28/11/2019	26/12/2019	149.51 X 151.82 X 149.40	22699	8.119	524.7	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2019

Lab ID : CP-2020-02-01-01
Project Name : Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference : BBMP/EE/BTP/WO/133/2019-20
Date of Receipt : 30-11-19
Customer ID : Culvert Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 26/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	28/11/2019	26/12/2019	150.77 X 149.29 X 151.41	22508	8.276	526.6	23.4	23.0
2	Culvert Concrete	M20	28/11/2019	26/12/2019	149.00 X 150.58 X 150.45	22437	8.865	502.7	22.4	
3	Culvert Concrete	M20	28/11/2019	26/12/2019	150.55 X 150.84 X 149.04	22709	8.119	526.7	23.2	

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TEST REPORT OF PRECAST COVER SLAB

Date: 25-11-19

Lab ID	:	**CP-2020-02-01-01**
Project Name	:	Improvements to CC Roads and Drain at Chokkanahalli in Ward No.05.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/133/2019-20
Date of Receipt	:	21-11-19
Sample Type /Size	:	Precast Cover Slab (150mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	21/11/2019

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.51	150.48	1.816	7933	120.9	15.2	14.2	17.7
2	Cover Slab-2	100.49	150.52	1.822	7930	120.3	15.2	14.1	17.6
3	Cover Slab-3	100.50	150.51	1.818	7931	120.5	15.2	14.1	17.7

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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